

IceCube File Catalog

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IceCube is a cubic kilometer neutrino detector located at the south pole. Metadata for files in IceCube has traditionally been handled on an application by application basis, with no user-facing access. There has been no unified view of data files, and users often just ls the filesystem to locate files. Recently effort has been put into creating such a unified view. Going for a simple solution, we created a user-facing REST API backed by a nosql database. All major data producers add their metadata to this central catalog. Challenges that were overcome include schema generation, containerized deployment, and scale testing.

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